

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	Fl	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,548	(	07/02/2003	Chris L. Willis	20030001-US	3563
42716	7590	08/25/2005		EXAMINER	
MAINE &	ASMUS		KIM, ELLEN E		
P. O. BOX 3	3445				<u>;</u>
NASHUA,	NH 0306	1	ART UNIT	PAPER NUMBER	
				2874	
					:
				DATE MAILED: 08/25/2005	;

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	$\bigcirc$				
		10/612,548	WILLIS, CHRIS L.	aw.				
	Office Action Summary	Examiner	Art Unit	100				
		Ellen Kim	2874					
Period fo	The MAILING DATE of this communication reply	tion appears on the cover sheet wi	th the correspondence address					
THE - Exte after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nations of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutoure to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no event, however, may a restation. 8 ays, a reply within the statutory minimum of thirty ry period will apply and will expire SIX (6) MON by statute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communic  ANDONED (35 U.S.C. § 133).	ation.				
Status								
1)⊠	Responsive to communication(s) filed of	on <i>21 June 2005</i> .						
2a)⊠		This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-20 and 22</u> is/are pending in 4a) Of the above claim(s) is/are valued.  Claim(s) <u>1-12</u> is/are allowed.  Claim(s) <u>13-20</u> is/are rejected.  Claim(s) <u>22</u> is/are objected to.  Claim(s) are subject to restriction	withdrawn from consideration.						
Applicati	ion Papers							
9)□	The specification is objected to by the E	xaminer.						
10)	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection	n to the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the The oath or declaration is objected to by		•	• •				
Priority ı	ınder 35 U.S.C. § 119							
12) a)l	Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International see the attached detailed Office action for	cuments have been received. cuments have been received in Aphe priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage					
Attachmen	t(s)	•						
	e of References Cited (PTO-892)	· · · · · · · · · · · · · · · · · · ·	ummary (PTO-413)					
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO r No(s)/Mail Date	· —	)/Mail Date formal Patent Application (PTO-152)					

Application/Control Number: 10/612,548

Art Unit: 2874

#### **DETAILED ACTION**

This is responsive to Applicant's amendment filed on 6/21/05.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 13-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokomachi et al [USPAT 5,483,608] and in view of Helmer [USPAT 3,885,205].

Yokomachi et al disclose an optical switch for switching plural optical fibers and the method comprising:

A platform 20 [fig. 15] that pivots about an axis of rotation, and having a range of motion that includes a stowed position and a deployed position;

Application/Control Number: 10/612,548

Art Unit: 2874

A hard stop 19c [as shown in fig. 15] proximate the platform 20, thereby defining the deployed position;

A motor 19 having an actuator arm [element between 19 and 19c]; and A push/pull spring 32 [fig. 15] operatively coupling the platform to a motor assembly, and adapted to preload the platform against the hard stop, thereby holding the platform in the first position despite opposing forces.

Yokomachi et al disclose every aspect of claimed invention except for the rotating motor assembly.

Helmer discloses a controlled rotating motor.

It would have been obvious to the ordinary skilled person in the art at the time the invention was made to modify Yokomachi et al device to include the Helmer's rotating motor for the purpose of controlled variable speed and constant torque [Helmer's abstract]. It is clear this improve the Yokomachi et al device.

With respect to claims 14 and 15, Yokomachi et al show in Fig. 27 a controller 31, which commands deployment and non-deployment of the optic.

With respect to claims 16, 17, 19, and 20, Yokomachi et al show in fig. 1 a sensor 13, and a linear encoder 14.

## Allowable Subject Matter

Claims 1-12 are allowed.

Claim 22 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not disclose or suggest an optic switching system comprising all the specific components with the specific combination including a clip adapted to couple around the elongated strip having an open-ended loop as set forth in claims 22.

#### **Conclusion**

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Application/Control Number: 10/612,548

Art Unit: 2874

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

In formation regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

For all official patent application related correspondence for organizations reporting to the Commissioner of Patents:

- Correspondence that is transmitted by facsimile must be directed to the central facsimile number, (703) 872-9306.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Further references of interest are cited on Form PLO-892, which is attachment to this office action.

Art Unit: 2874

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen Kim whose telephone number is (571) 272-2349.

The examiner can normally be reached on Monday through Thursday.

Ellen E. Kim

**Primary Examiner** 

August 24, 2005/EK